## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 60142210 A

(43) Date of publication of application: 27.87.85

(21) Application number: 58247635 (71) Applicant: MITSUBISHI METAL CORP
(22) Date of filling: 29.12.83 (72) Inventor: KIMURA MASAKATSU MURATA OSAMU SUWA JUNJA

## (54) METHOD FOR MEASURING THICKNESS OF COMPOSITE MATERIAL MADE OF ZIRCONIUM ALLOY AND ZIRCONIUM

## (57) Abstract:

PURPOSE: To measure the thickness of Zr accuretaly and surely by measuring the thickness of a composite material made of Zr alloy and Zr by using ultrasortic wave having a prescribed frequency and a line focus type probe.

CONSTITUTION: A tube material 1 consisting of an outer tayer material 1a made of Zr alloy and an inner tayer material 1b made of Zr is dipped in a fluid medium 2, and the utrasonic wave having 20W100MHz frequencies is emitted from the tine todus type probe 3. The reflected wave is received by the probe 3, and a sending acto T is displayed on a cathode-ray tube 5 of an ultrasonic inspector 4. The ultrasonic wave is reflected at the interface between the material 1a and 1b, that between the material 1a and 1b, that between the material 1b and the medium 2, and respective echoes are generated. The thicknesses of the materials 1a and 1b are measured accurately and surely from time intervals between respective echoes.

## COPYRIGHT: (C)1985,JPO&Japio

